# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 6.1.3 |
| Input Device: | Carousel | Date: | 12/04/2014 10:50 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 10/20/2014 10:06 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

Bead Product: CST Setup Beads, Part #: 910723
Lot ID: 51739, Expiration Date: 01/31/2016
Bead Lot Information: Available

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 124659 | -1 | 1.58 | 124419 | 1.53 |
| Blue | F | SSC | 125000 | 124055 | -1 | 2.24 | 124941 | 1.94 |
| Blue | E | FITC | 17374 | 16627 | -5 | 2.27 | 936 | 8.26 |
| Blue | D | PE | 22653 | 21973 | -4 | 1.90 | 990 | 7.41 |
| Blue | B | PerCP-Cy5-5 | 64987 | 63405 | -3 | 2.47 | 1672 | 12.02 |
| Blue | A | PE-Cy7 | 74081 | 72351 | -3 | 3.48 | 951 | 22.75 |
| Red | C | APC | 61430 | 60189 | -3 | 2.67 | 3401 | 7.95 |
| Red | A | APC-Cy7 | 88289 | 87966 | -1 | 2.72 | 1740 | 7.63 |
| Violet | B | V450 | 12535 | 12155 | -4 | 2.83 | 750 | 7.06 |
| Violet | A | V500 | 47468 | 45649 | -4 | 2.33 | 2578 | 4.83 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 20283 | 4.26 | 578 | -1 | N/A | N/A | Pass |
| Blue | F | SSC | 62070 | 1.35 | 493 | 4 | N/A | N/A | Pass |
| Blue | E | FITC | 103 | 31.90 | 509 | 0 | 0.0289 | 6 | Pass |
| Blue | D | PE | 206 | 22.52 | 502 | 1 | 0.2013 | 122 | Pass |
| Blue | B | PerCP-Cy5-5 | 206 | 35.66 | 581 | 1 | 0.0132 | 0 | Pass |
| Blue | A | PE-Cy7 | 75 | 86.91 | 638 | 1 | 0.0178 | 8 | Pass |
| Red | C | APC | 319 | 25.49 | 570 | 0 | 0.0224 | 7 | Pass |
| Red | A | APC-Cy7 | 111 | 37.07 | 547 | 1 | 0.0053 | 1036 | Pass |
| Violet | B | V450 | 79 | 38.31 | 448 | -1 | 0.0626 | 1994 | Pass |
| Violet | A | V500 | 169 | 18.73 | 476 | -2 | 0.0192 | 53 | Pass |

## Specifications

PMTV Delta from baseline: 50 (BD)
Violet Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Blue Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Red Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)

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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Spec. (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.62 | 47.70 - 71.54 | N/A | N/A | -31.34 | -31.21 | 0.89 |
| Blue | 20.48 | 16.35 - 24.53 | 1.25 | 1.00 - 1.50 | 0.00 | 0.00 | 1.30 |
| Red | 16.19 | 13.07 - 19.61 | N/A | N/A | 31.79 | 31.98 | 1.12 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.89

## Threshold

Threshold (FSC): 11366

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.60
Spec.: 3.80 - 4.00

Comments